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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/713,030	11/17/2003	Edwin Collin	4640-009A	9751

7590 06/17/2004  
LOWE HAUPTMAN GILMAN & BERNER, LLP  
Suite 300  
1700 Diagonal Road  
Alexandria, VA 22314

EXAMINER


DINH, PHUONG K

ART UNIT	PAPER NUMBER
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2839

DATE MAILED: 06/17/2004

Please find below and/or attached an Office communication concerning this application or proceeding.

<b>Office Action Summary</b>	<b>Application No.</b> 10/713,030	<b>Applicant(s)</b> COLLIN ET AL.	
	<b>Examiner</b> Phuong KT Dinh	<b>Art Unit</b> 2839	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

#### Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

#### Status

- 1) ☒ Responsive to communication(s) filed on 27 November 2003.
- 2a) ☐ This action is **FINAL**.                      2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

#### Disposition of Claims

- 4) ☒ Claim(s) 1-17 is/are pending in the application.
- 4a) Of the above claim(s) 1-6 is/are withdrawn from consideration.
- 5) ☐ Claim(s) \_\_\_\_\_ is/are allowed.
- 6) ☒ Claim(s) 7,9-13,16 and 17 is/are rejected.
- 7) ☒ Claim(s) 8,14 and 15 is/are objected to.
- 8) ☐ Claim(s) \_\_\_\_\_ are subject to restriction and/or election requirement.

#### Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on \_\_\_\_\_ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.  
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

#### Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All    b) ☐ Some    c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
  2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
  3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

\* See the attached detailed Office action for a list of the certified copies not received.

#### Attachment(s)

- |   |   |
|---|---|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892)   | 4) <input type="checkbox"/> Interview Summary (PTO-413)<br>Paper No(s)/Mail Date. _____ |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948)  | 5) <input type="checkbox"/> Notice of Informal Patent Application (PTO-152)             |
| 3) <input checked="" type="checkbox"/> Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)<br>Paper No(s)/Mail Date <u>0404</u> . | 6) <input type="checkbox"/> Other: _____  |

## **DETAILED ACTION**

### ***Claim Objections***

1. Claims 8 and 14 are objected to because of the following informalities:
2. Claims 8 and 14, "wherein said unmated condition" should be changed to - -  
wherein in said unmated condition - -.
3. Appropriate correction is required.

### ***Claim Rejections - 35 USC § 102***

4. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

5. Claims 7, 9-13 and 16-17 are rejected under 35 U.S.C. 102(b) as being anticipated by Culver (U. S. Patent 3,470,524).

Regarding claims 7, 10-13 and 16, Culver (see figures 2, 5, 7) discloses an electrical connector comprising: a receptacle assembly including a receptacle connector having a plurality of studs 51 extending radially outwardly therefrom and a plurality of contacts; a plug assembly having a plurality of contacts and including: a plug body 14 having one of a keyway 30 and a key 51; a coupling nut 50 including a plurality of studs 51 extending radially inwardly and having one of a keyway 30 and a key 51; a spring biasing 55 said coupling nut in one direction; a rotatable sleeve 34 retained in said plug including coupling nut ramps and receptacle ramps 35; wherein said receptacle assembly and said plug assembly have an unmated condition and a locked mated

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condition and said receptacle assembly and said plug assembly are brought into said locked mated condition when said receptacle assembly and said plug assembly are pushed together and said studs of said receptacle assembly and said coupling nut engage said rotatable sleeve and cause said sleeve to rotate thereby locking said receptacle assembly and said plug assembly.

Regarding claims 9 and 17, Culver (see figures 2, 5, 7) discloses portion nut of ramp 36 at lead line 46 at figure 7 is shallower than a portion of the receptacle ramp 35 at lead line 35.

#### ***Allowable Subject Matter***

6. Claims 8, 14-15 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

None of the references discloses said unmated condition said coupling nut ramps are not aligned with said coupling nut studs and said spring biases said coupling nut studs against said end of said rotatable sleeve.

#### ***Conclusion***

**Any response to this action may be mailed to:**

**Commissioner for Patents**

**P.O. Box 1450**

**Alexandria, VA 22313-1450**

For additional information regarding this new address, which was effective May 1, 2003, see *Correspondence with the United States Patent and Trademark Office*, 68 Fed. Reg. 14332 (March 25, 2003).

**Or Faxed to:**

**(703) 872-9306.**

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**Hand-delivered responses** should be brought to:

Crystal Plaza 4, Fourth Floor (Receptionist)  
2201 South Clark Place, Arlington, Virginia.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Phuong KT Dinh whose telephone number is 571-272-2090. The examiner can normally be reached on 8 -5, 5 days a week.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Lynn Field can be reached on 571-272-2092. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

  
Phuong Dinh  
April 26, 2004.